

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1.-25. (Canceled)

26. (Currently amended) A dimensionally stable polymeric medical balloon having [[a]] an inflated outer diameter radial shrinkage of less than 10% as measured by a difference between the inflated outer diameter of the balloon at ambient temperature in a balloon mold inflated to the inner diameter of the balloon mold during blow-molding of the balloon and the inflated outer diameter of the balloon at ambient temperature as part of a catheter system after exposure to a thermal treatment, the balloon having been heat-set in the balloon mold using a heating member which applies heat to the balloon simultaneously along the length of the balloon, so that the balloon inflated outer diameter radial shrinkage is less than an inflated outer diameter radial shrinkage of a balloon heat-set nonuniformly.

27. (Canceled)

28. (Previously presented) The polymeric balloon of claim 26 wherein the radial shrinkage is less than about 6%.

29. (Currently amended) The polymeric balloon of claim 26 wherein the radial shrinkage is less than about [[6%]] 4%.

30. (Currently amended) The polymeric balloon of claim 26 wherein the balloon has an inflated length axial growth of [[is]] less than about 10% as measured by a difference between the inflated length of the balloon at ambient temperature in the balloon mold during blow-molding of the balloon and the inflated length of the balloon at ambient temperature as part of the catheter system after exposure to the thermal treatment.

31. (Original) The polymeric balloon of claim [[26]] 31 wherein the axial growth is less than about 6%.

32. (Currently amended) The polymeric balloon of claim [[26]] 31 wherein the axial growth is less than about [[10%]] 4%.

33. (Previously presented) The polymeric balloon of claim 26 wherein the balloon is formed at least in part of a polyurethane.

34. (Previously presented) The polymeric balloon of claim 26 having a length of about 0.8 to about 8 cm.

35. (Previously presented) The polymeric balloon of claim 26 having a length of about 1.5 to about 3 cm.

36. (Previously presented) The polymeric balloon of claim 26 having an uninflated wall thickness of about 0.1 to about 0.4 mm.
37. (Previously presented) The polymeric balloon of claim 26 having an uninflated wall thickness of about 0.2 mm.